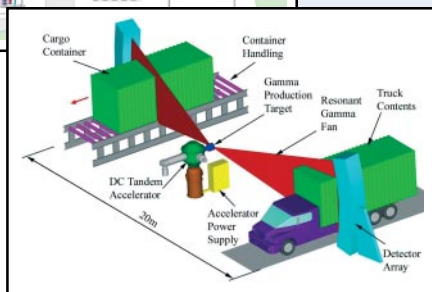
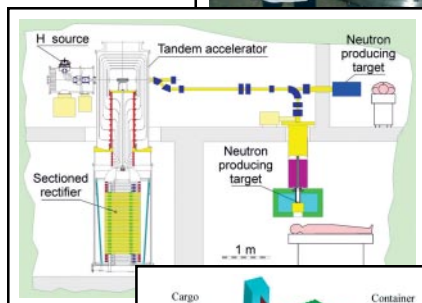


Vacuum Insulated Tandem Accelerator System (VITA)



- New approach to produce high current DC ion beams with high energy resolution and stability
- VITA features industrially-proven DC accelerator technology for reliable high current operation
- System design maximizes ion beam transport, minimizes possibility of failure due to voltage breakdown
- VITA generates intense protons beam to produce:
 - Epithermal fast neutrons for Boron Neutron Capture Therapy
 - Resonant photons for explosives detection
 - Positrons from the $^{19}\text{F}(p, \alpha e^+)^{16}\text{O}$ reaction
 - Neutrons for imaging, other research applications
- Tandem accelerator permits transport of high current with high reliability in compact, low-cost system